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## **ELECTRONIC THESIS AND DISSERTATION UNSYIAH**

### **TITLE**

**UJI KEEFEKTIFAN CENDAWAN BEAUVERIA BASSIANA TERHADAP MORTALITAS DAN PERKEMBANGAN CROCIDOLOMIA PAVONANA F.RN(LEPIDOPTERA : PYRALIDAE)**

### **ABSTRACT**

**UJI KEEFEKTIFAN CENDAWAN *Beauveria bassiana* TERHADAP MORTALITAS DAN PERKEMBANGAN *Crocidolomia pavonana* F.  
(LEPIDOPTERA : PYRALIDAE)**

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### **ABSTRACT**

The purpose of this study was to know the effectiveness of the fungus *B. bassiana* in controlling pests *C. pavonana*. This research was conducted at the Laboratory of Pests and Plant Diseases, Department of Agrotechnology, Faculty of Agriculture, Syiah Kuala University of Banda Aceh, from February to May 2014. This study used a completely randomized design (CRD) non factorial, with 7 treatments namely control, 10 3, 10 4, 10 5, 10 6, 10 7 and 10 8 conidia / mL. Each treatment was done for 3 times in order to make the number of experimental units became 21 units of experiment. The variables were observed including incubation period, larval mortality, the percentage of pupae formed and the percentage of the imago emerged. The results showed that the percentage of larval mortality had no significant difference in 1 HSA to 4 HSA. However, it was highly significant at 5 HSA with the highest percentage about 33.33% on the density of 108 conidia / mL. While the incubation period, the percentage of pupae and imago indicated that they were very significant differences between the treatments given. The incubation period occurred faster; 2 HSA on the density of 10 7 and 10 8 conidia / mL. The percentage of pupae was formed in the lowest percentage namely 66.67% on the density of 10 8 conidia / mL, and the percentage of the imago was appeared at the lowest percentage about 60% on the density of 10 8 conidia / mL. B. The application of *bassiana* in this study was less effective in controlling pests *C. pavonana* because the mortality rate only reached about 33.33%.

Keyword : effectiveness, *B. bassiana*, mortality, development, *C. pavonana*.